

AMENDMENTS TO THE CLAIMS

Claims 1-3. (Cancelled).

4. (Previously Presented) A method of making a preform according to claim 16, wherein said first collapsed body etched by said etching step has an OH-radical concentration of 1 ppm or less therewithin.

5. (Previously Presented) A method of making a preform according to claim 16, wherein said second collapsed body has an OH-radical concentration of 3 ppm or less therewithin.

6. (Cancelled).

7. (Cancelled).

8. (Cancelled).

9. (Previously Presented) A method of making a preform according to claim 16, further comprising a second elongating step of elongating said second collapsed body obtained by said second collapsing step until a predetermined outer diameter is attained.

10. (Previously Presented) A method of making a preform according to claim 16, further comprising a glass depositing step of depositing a glass soot body on an outer peripheral

surface of said second collapsed body, and sintering said glass soot body so as to form a glass material layer to become a jacket layer.

11. (Previously Presented) A method of making a preform according to claim 16, wherein each of said first and second collapsing steps is carried out by using an electric heater.

12. (Previously Presented) A method of making a preform according to claim 16, wherein said first cladding tube includes silica glass doped with a predetermined amount of fluorine.

13. (Original) A method of making a preform according to claim 12, wherein said second cladding tube includes silica glass doped with a predetermined amount of fluorine.

14. (Previously Presented) A method of making a preform according to claim 12, wherein said second cladding tube includes a member selected from the group consisting of pure silica glass and silica glass doped with a predetermined amount of chlorine.

15. (Original) A method of making an optical fiber comprising the steps of:
preparing the preform according to claim 10; and drawing said preform while heating a part of said preform prepared.

16. (Currently Amended) A method of making a preform for a dispersion compensating optical fiber having a negative chromatic dispersion in a 1.55 μ m band and capable

of compensating for a single mode fiber by increasing an absolute value of its chromatic dispersion, said method comprising:

(1) a first step of forming a first collapsed body, said first step including:

a first collapsing step in which, in a state where a core rod to become a core region is inserted in a first cladding tube to become a part of said cladding region, said core rod and first cladding tube are integrated by heating, whereby a collapsed body obtained by said first collapsing step has an outer diameter of 4.5 times or more but 6.5 times or less that of said core rod at the time when said first collapsing step ends; and

a first elongating step of elongating said collapsed body obtained by said first collapsing body until its outer diameter after elongation becomes $1/2$ or less of that before elongation; and

(2) an etching step, performed after said first elongating step, of etching a surface of said first collapsed body obtained by said first step such that a thickness of an outer peripheral portion of said first collapsed body to be etched in said etching step becomes 1.0 to 2.5 mm; and

(3) a second step, performed after said etching step, of forming a second collapsed body by integrally depositing a glass material layer to become a part of a cladding region onto an outer periphery of said first collapsed body etched by said etching step, said second step including a second collapsing step in which, in a state where said first collapsed body is inserted in a second cladding tube to become a part of said cladding region, said first collapsed body and second cladding tube are integrated by heating,

wherein said second collapsed body has an outer diameter of 14 times or more that of said core rod at the time when said second collapsing step ends.

17. (Previously Presented) A method of making a dispersion compensating optical fiber, comprising the steps of:

preparing a perform according to claim 16; and

drawing said perform while heating a part of said perform prepared.

18. (Currently Amended) A method of making a preform according to claim 16, wherein each of said first and second collapsing steps is carried out by using a flame obtained by burning a member selected from the group consisting of O₂ and hydrogen ~~fuels~~ fuel, air and hydrogen ~~fuels~~ fuel, O₂ and hydrocarbon ~~fuels~~ fuel, and air and hydrocarbon ~~fuels~~ fuel.